

Figure 1

SP 0	SP 4	C 8	C 12	C 16	C 20	C 24	C 28
R 1	SP 5	C 9	C 13	C 17	C 21	C 25	C 29
R 2	SP 6	SP 10	SP 14	SP 18	C 22	C 26	C 30
SP 3	SP 7	R 11	R 15	SP 19	C 23	C 27	C 31
C 32	SP 36	SP 40	SP 44	SP 48	C 52	C 56	C 60
C 33	C 37	C 41	C 45	C 49	C 53	C 57	C 61
C 34	C 38	C 42	C 46	C 50	C 54	C 58	C 62
C 25	C 39	C 43	C 47	C 51	C 55	C 59	C 63

Figure 2A

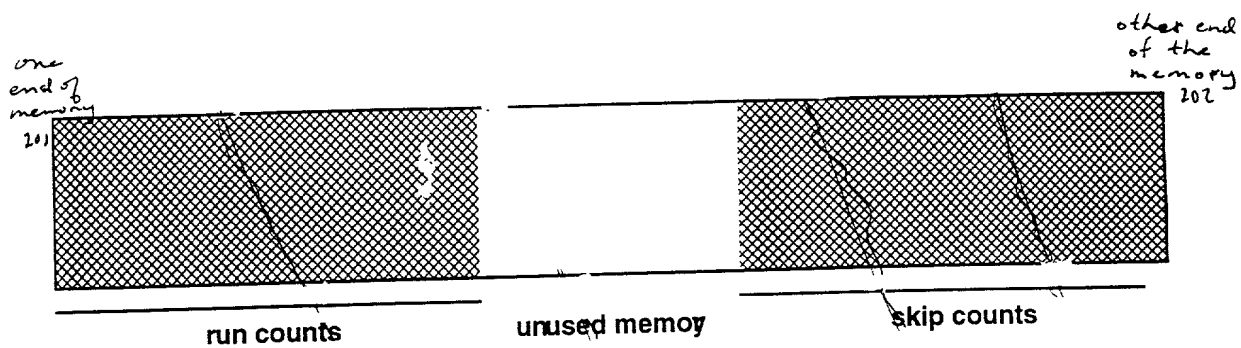


Figure 2B

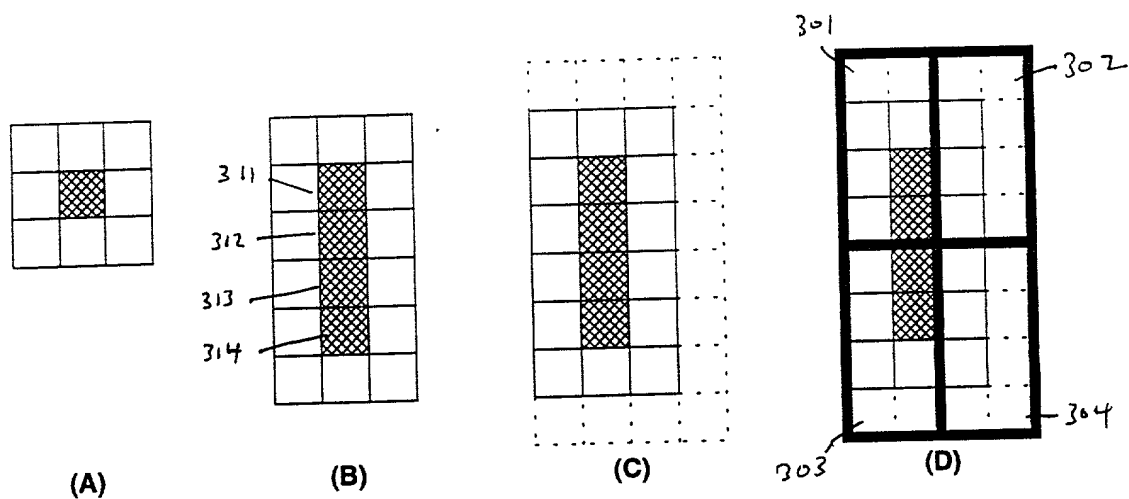
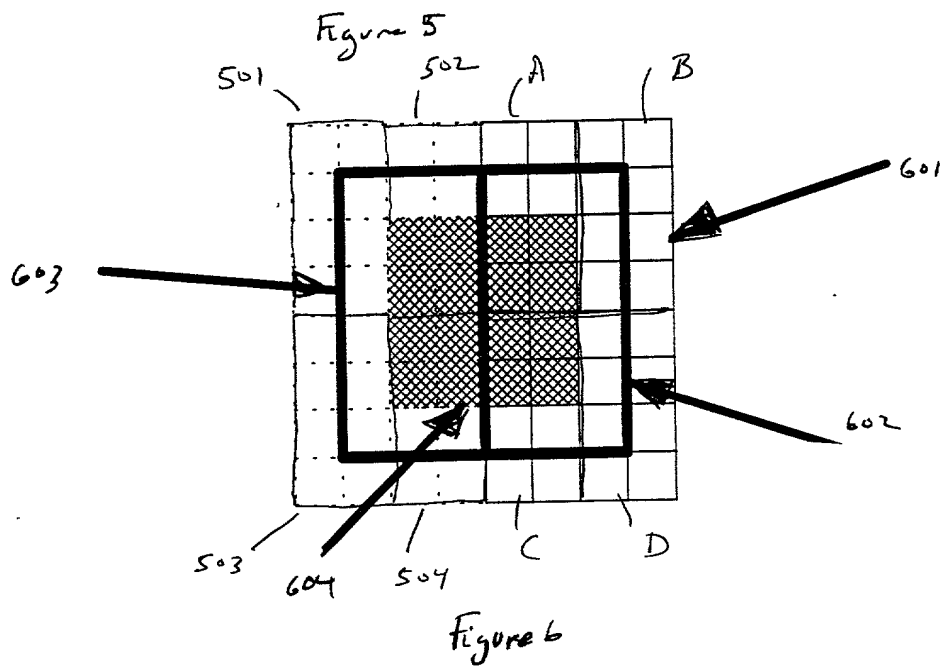
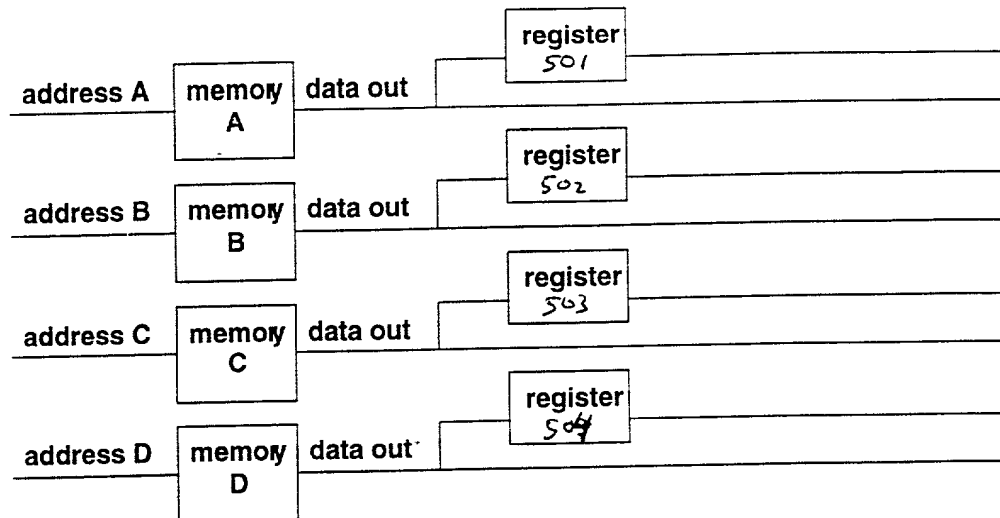


Figure 3

	0	1	2	3	4	5	6	7
0	A	B	A	B	A	B	A	B
1	C	D	C	D	C	D	C	D
2	A	B	A	B	A	B	A	B
3	C	D	C	D	C	D	C	D
0	A	B	A	B	A	B	A	B

Figure 4



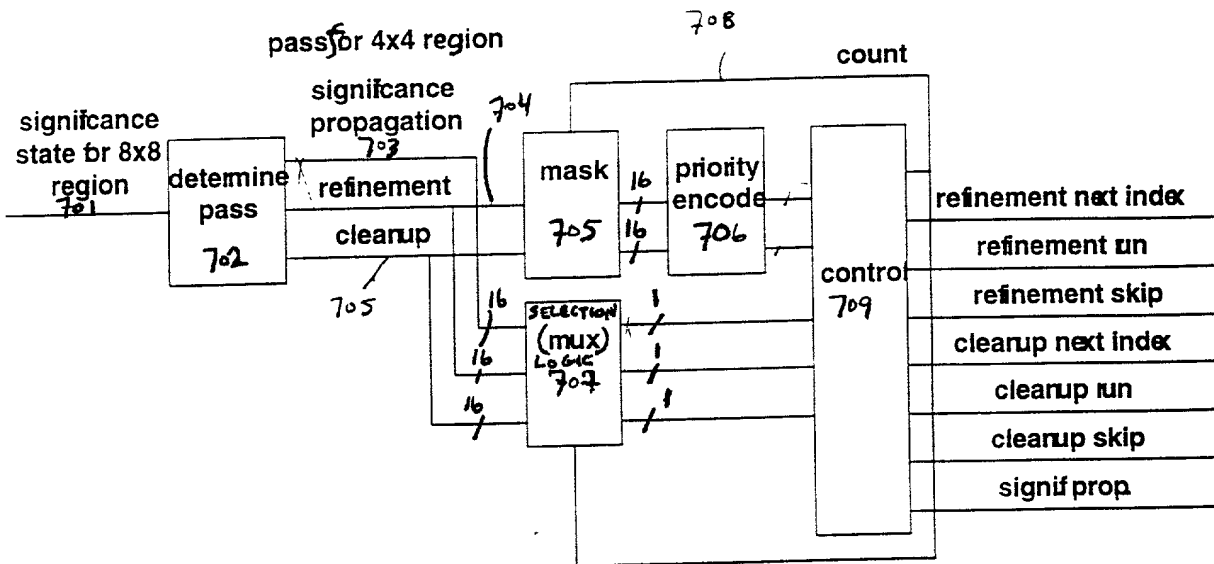


Figure 7

SP	SP	SP	SP
C	C	C	C
SP	SP	SP	SP
SP	R	R	SP

SP = significance propagation
C = cleanup
R = refinement

SP pass: 10*2 for SP pass coefficients
6 for C and R pass coefficients
C pass: 4*2 for C pass coefficients
R pass: 2 for R pass
total: 36 clocks = 2.25 clocks per coefficient

Figure 8

	0	1	2	3
0	A	A	A	A
1	B	B	B	B
2	A	A	A	A
3	B	B	B	B
0	A	A	A	A

Figure 9

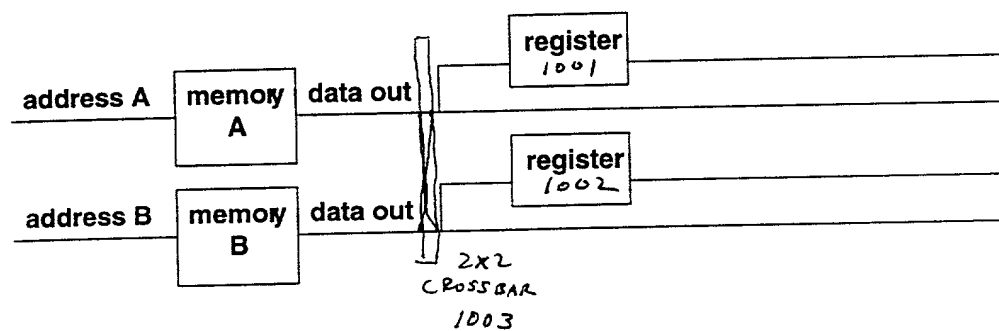


Figure 10

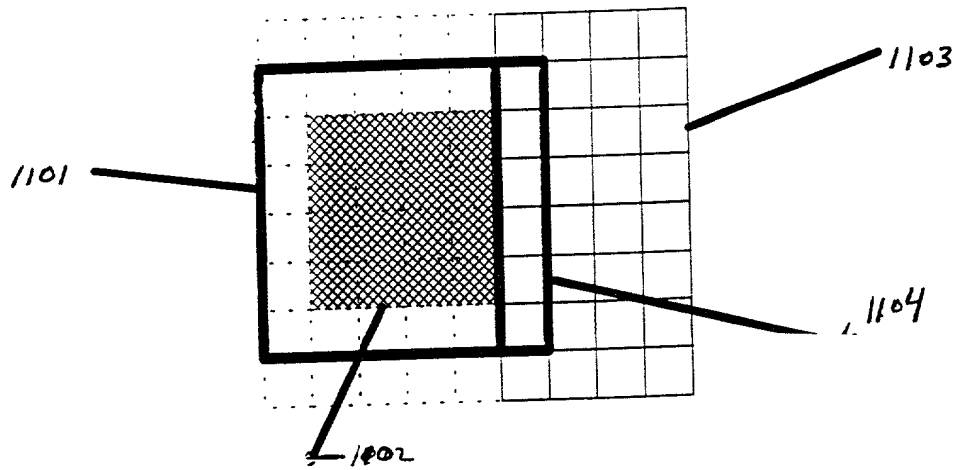


Figure 11

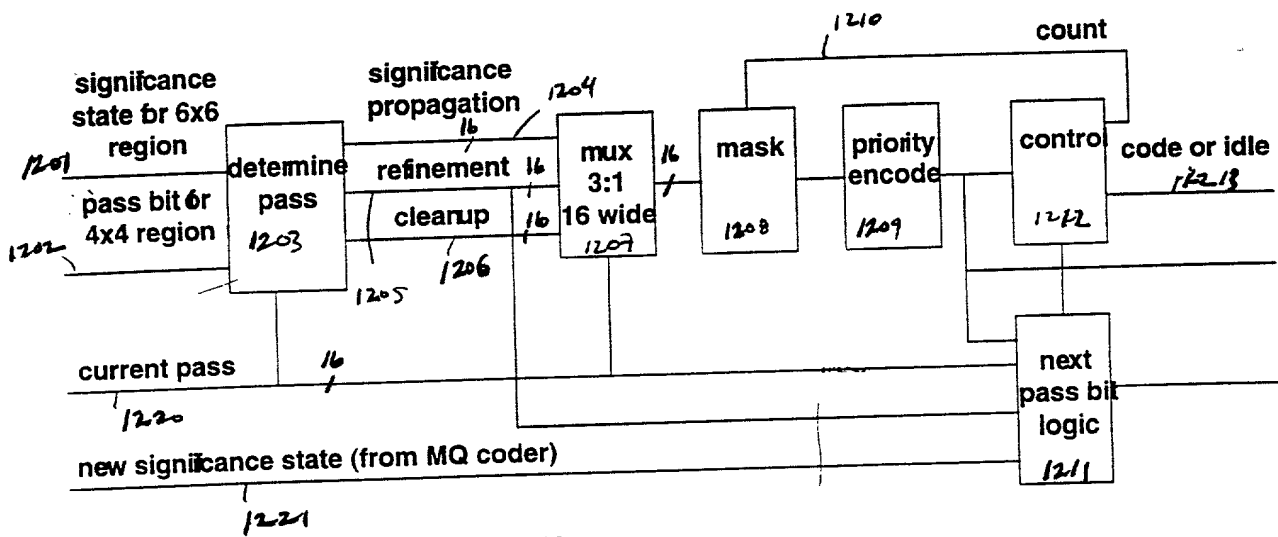


Figure 12

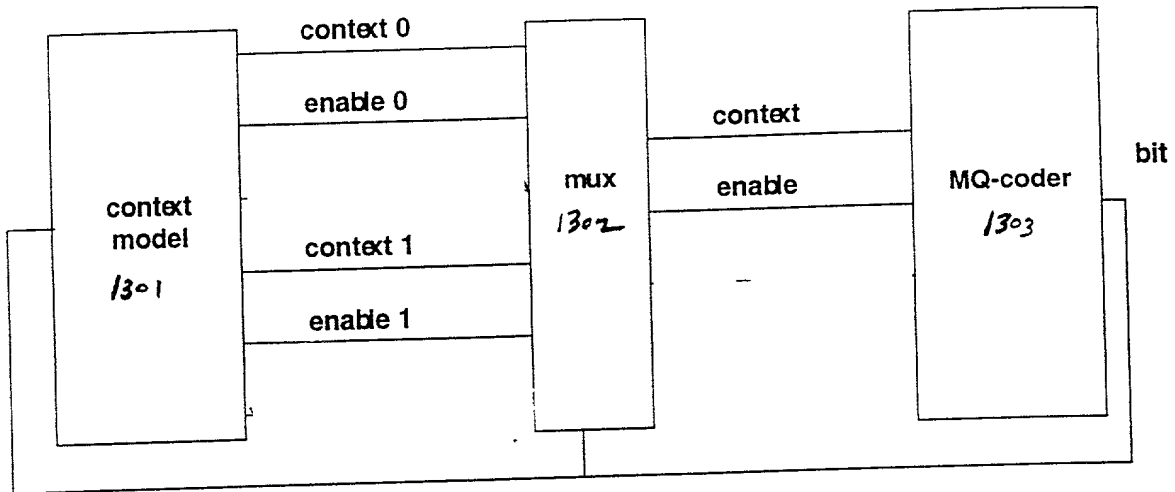


Figure 13

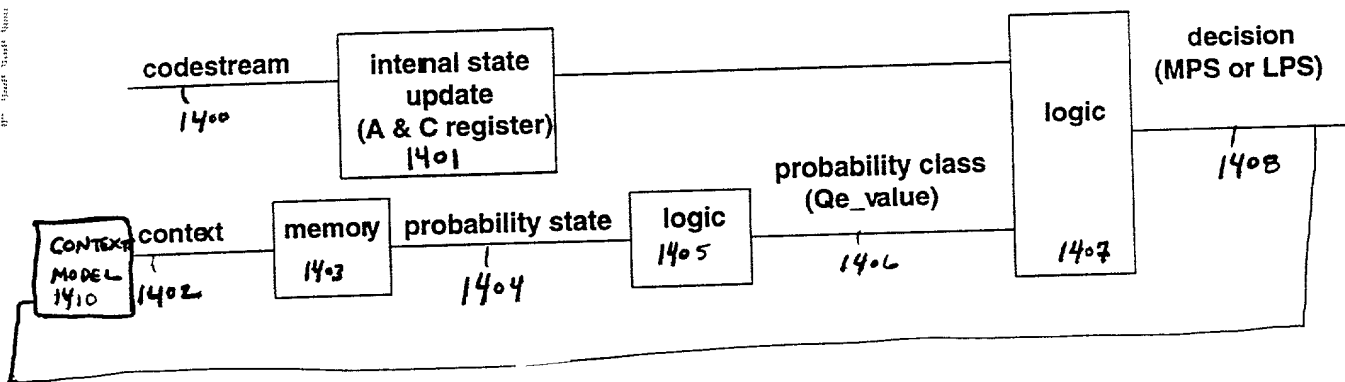


Figure 14A

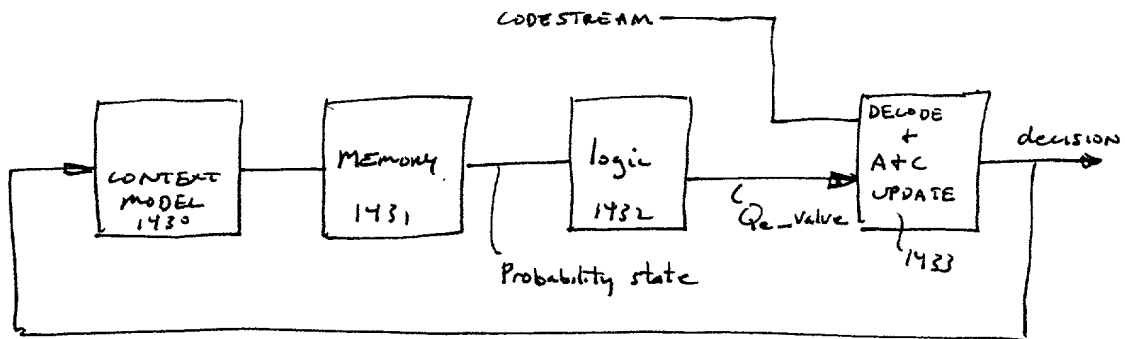


Figure 14B.

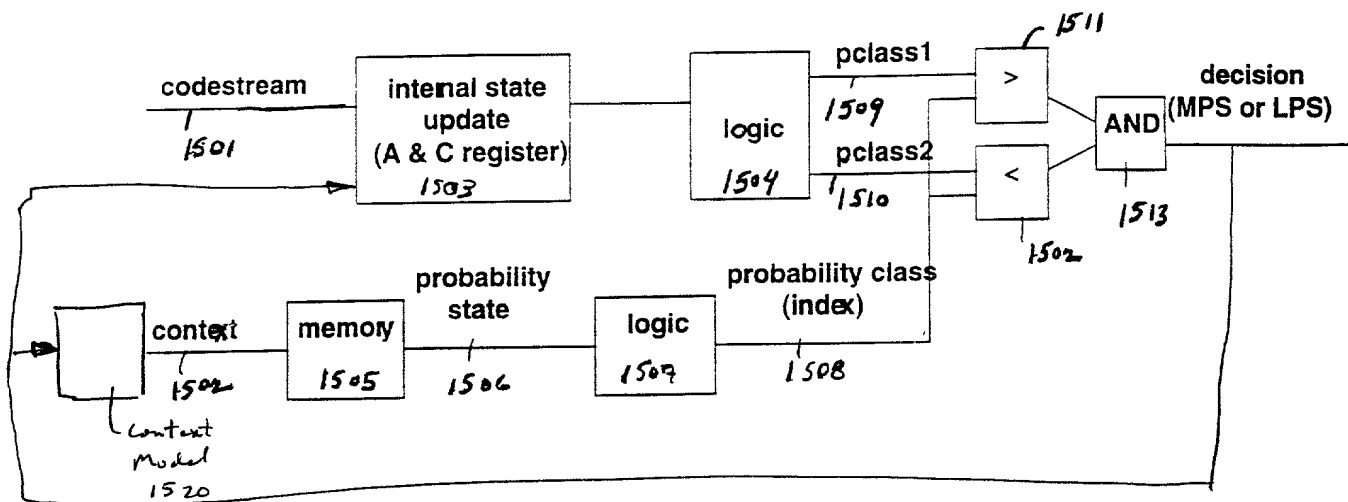


Figure 15

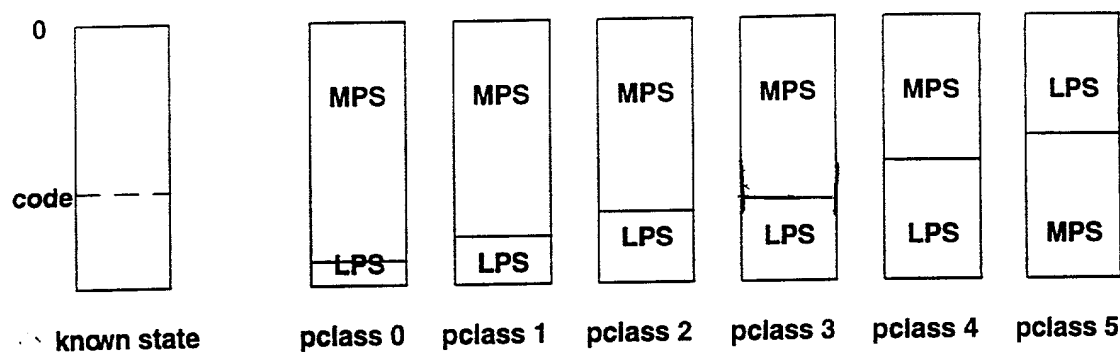


Figure 16A

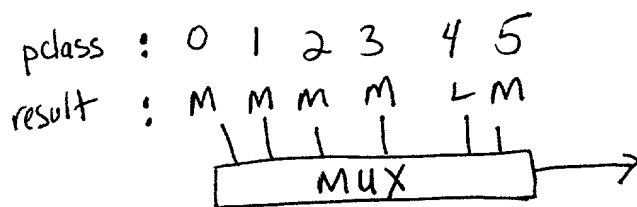


Figure 16B

5MPS
4 MPS
3 MPS
2 MPS
1 MPS
LPS

Figure 17

luminance				chrominance				chrominance			
A	A	A	D	B	B	B	D	C	C	C	D
A	A			B	B			C	C		
A		A		B		B		C		C	
A			A	B			B	C			C

(A)

A	A	A	B	C	C	C	D	E	E	E	F
A	A			C	C			E	E		
A		A		C		C		E		E	
B			A	D			C	F			E

(B)

F	F	B	C	G	G	C	F	E	E	E	E
F	F			G	G			E	E		
A		A		B		C		D		D	
A			B	D			H	G			H

(C)

Figure 18

luminance				chrominance				chrominance			
A	A	A	B	C	C	C		D	D	D	
A	A			C	C			D	D		
A		A		C		C		D		D	
B			A	C				D			

(A)

F	F	F	C	B	B	C		D	D	F	
A	A			C	C			E	E		
F		F		A		B		D		E	
A			B	D				E			

(B)

A	A	A	C	E	E	E		G	G	G	
A	A			E	E			G	G		
A		A		E		E		G		G	
B			D	F				H			

(C)

Figure 19

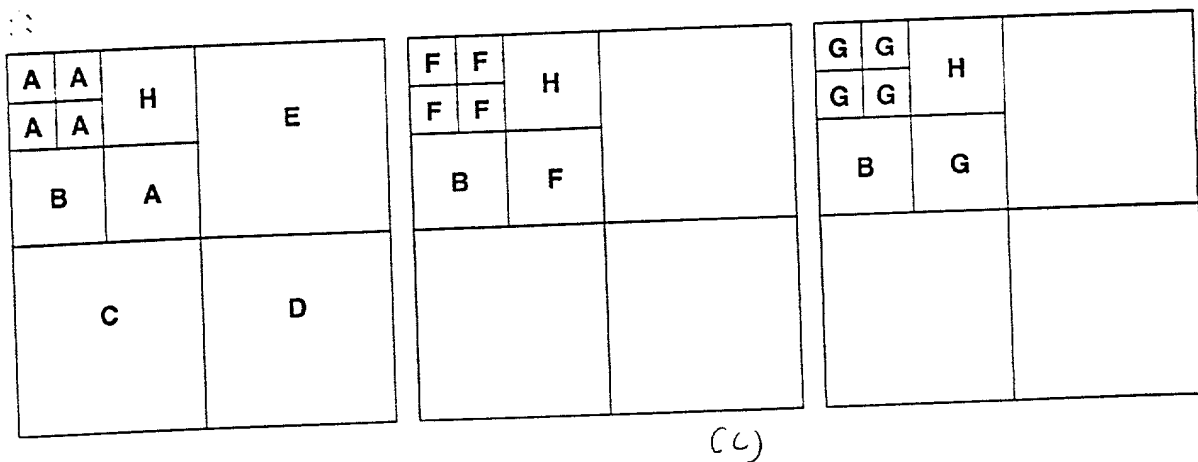
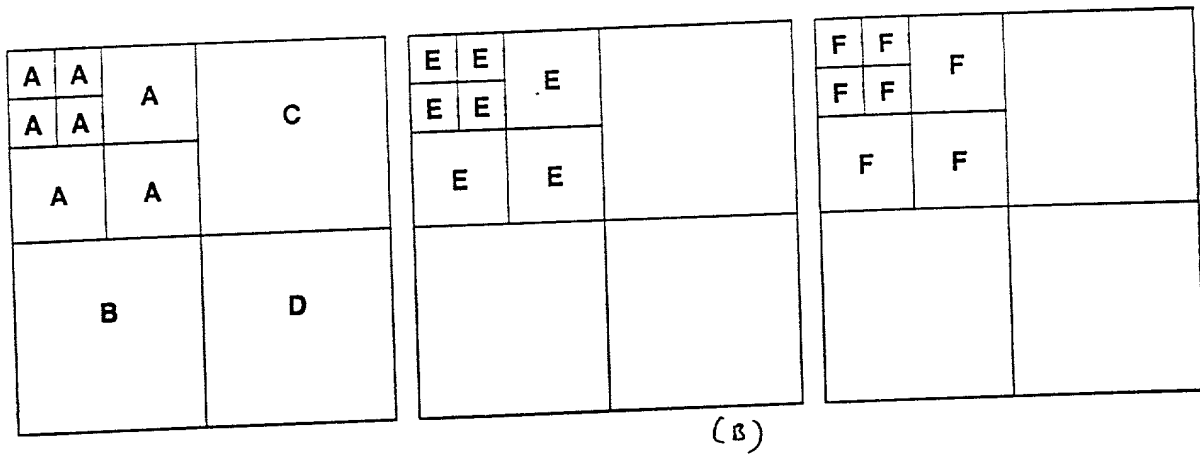
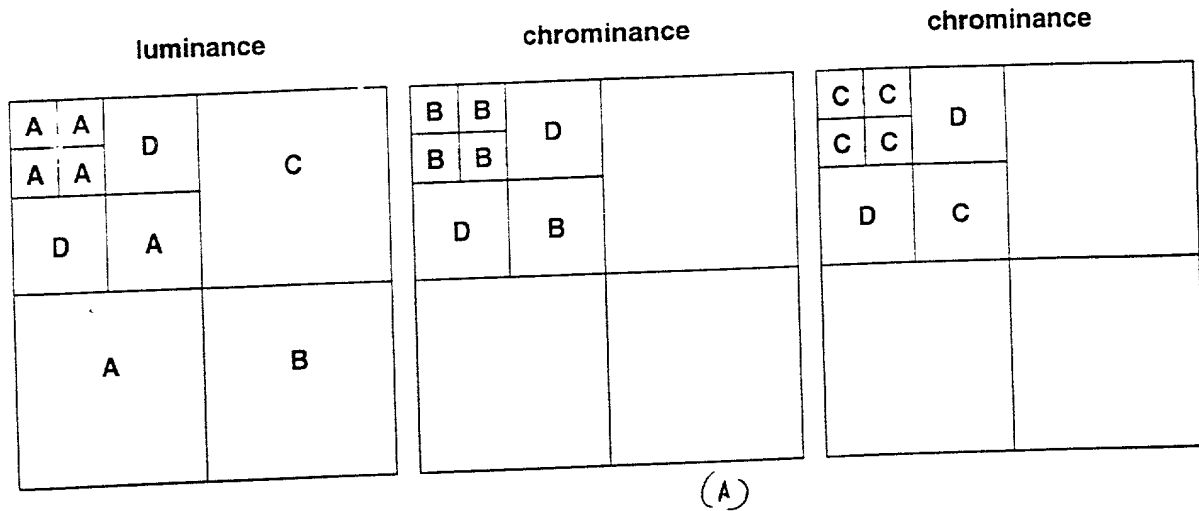


Figure 20

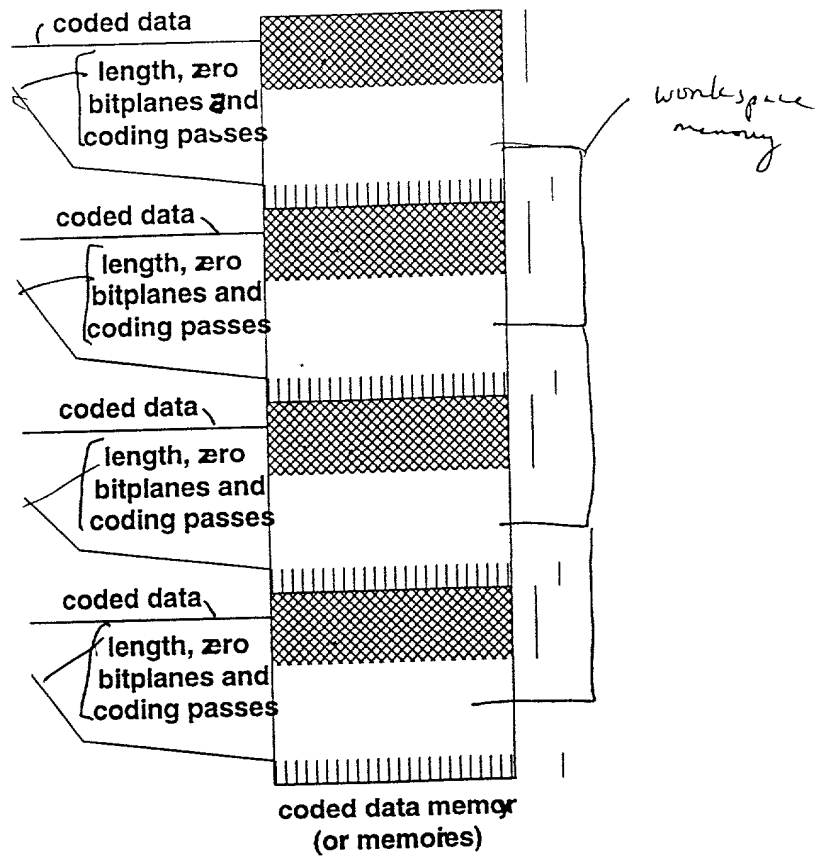


Fig 21

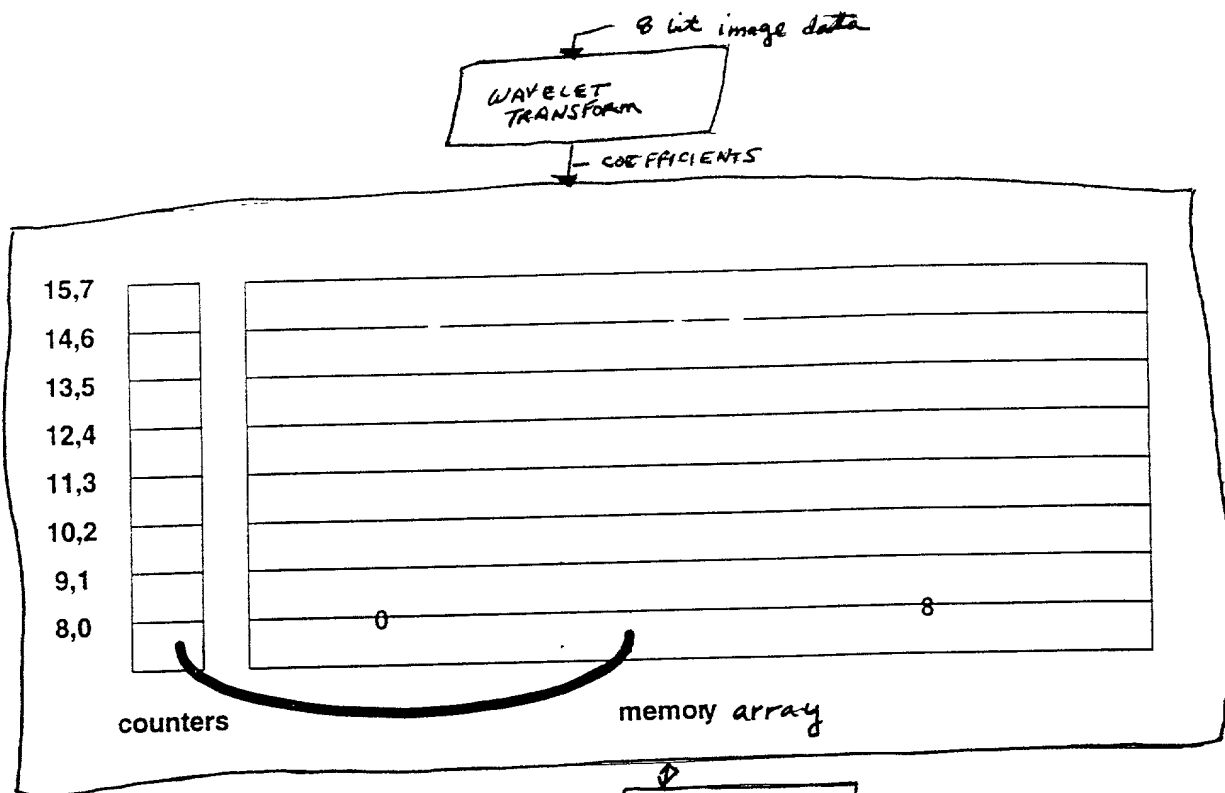


Figure 22A

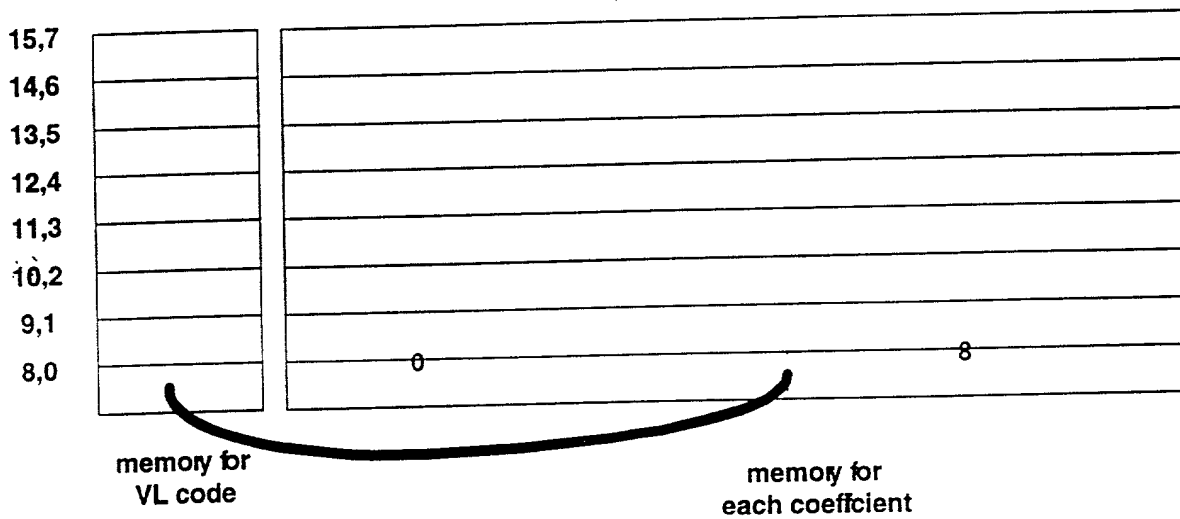
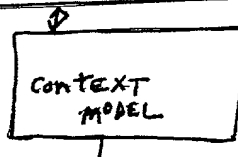


Figure 23

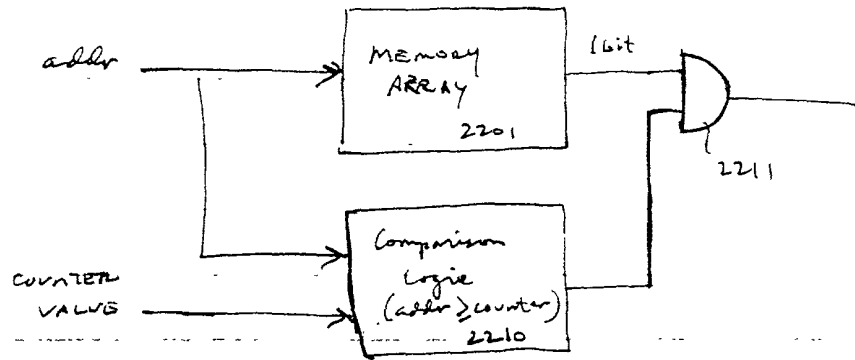
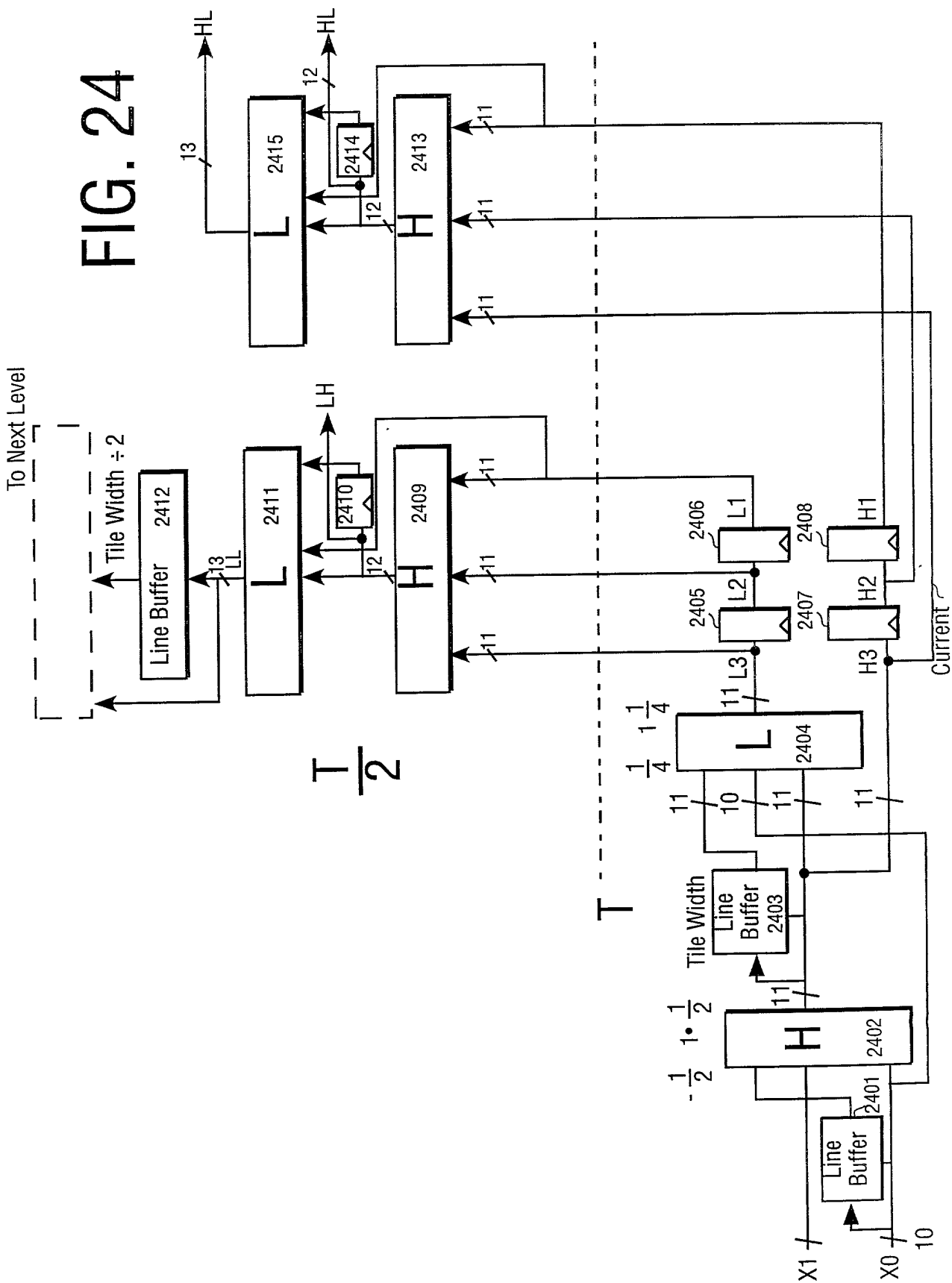


Figure 22B



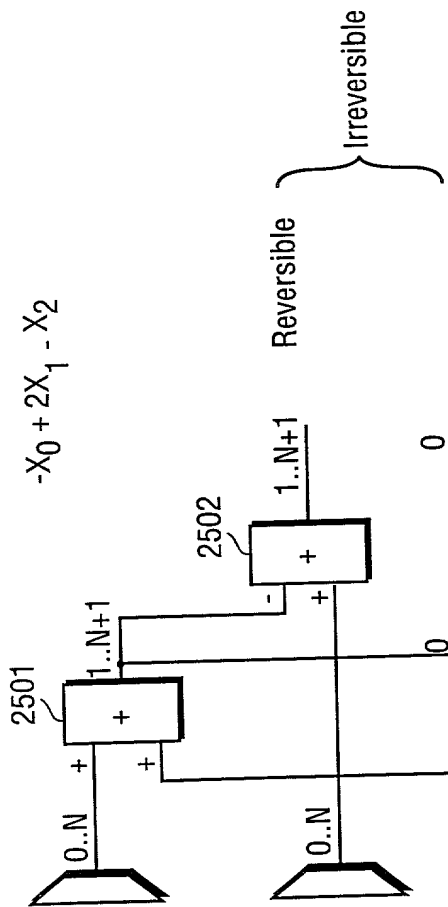


FIG. 25A

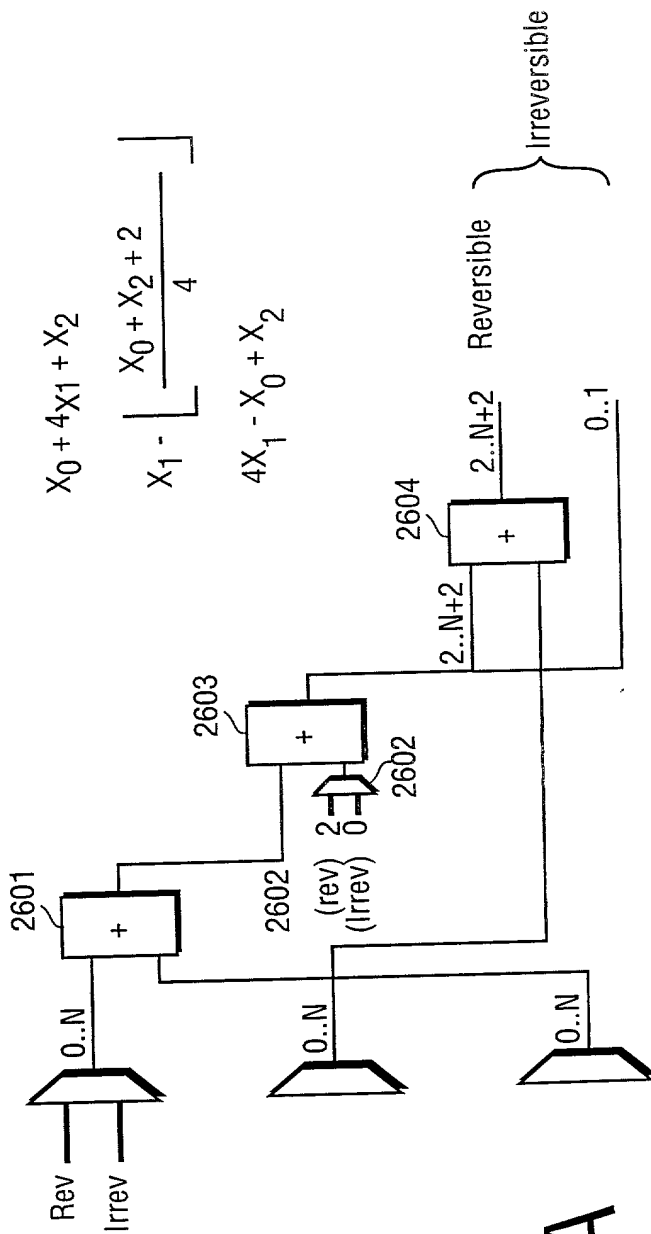
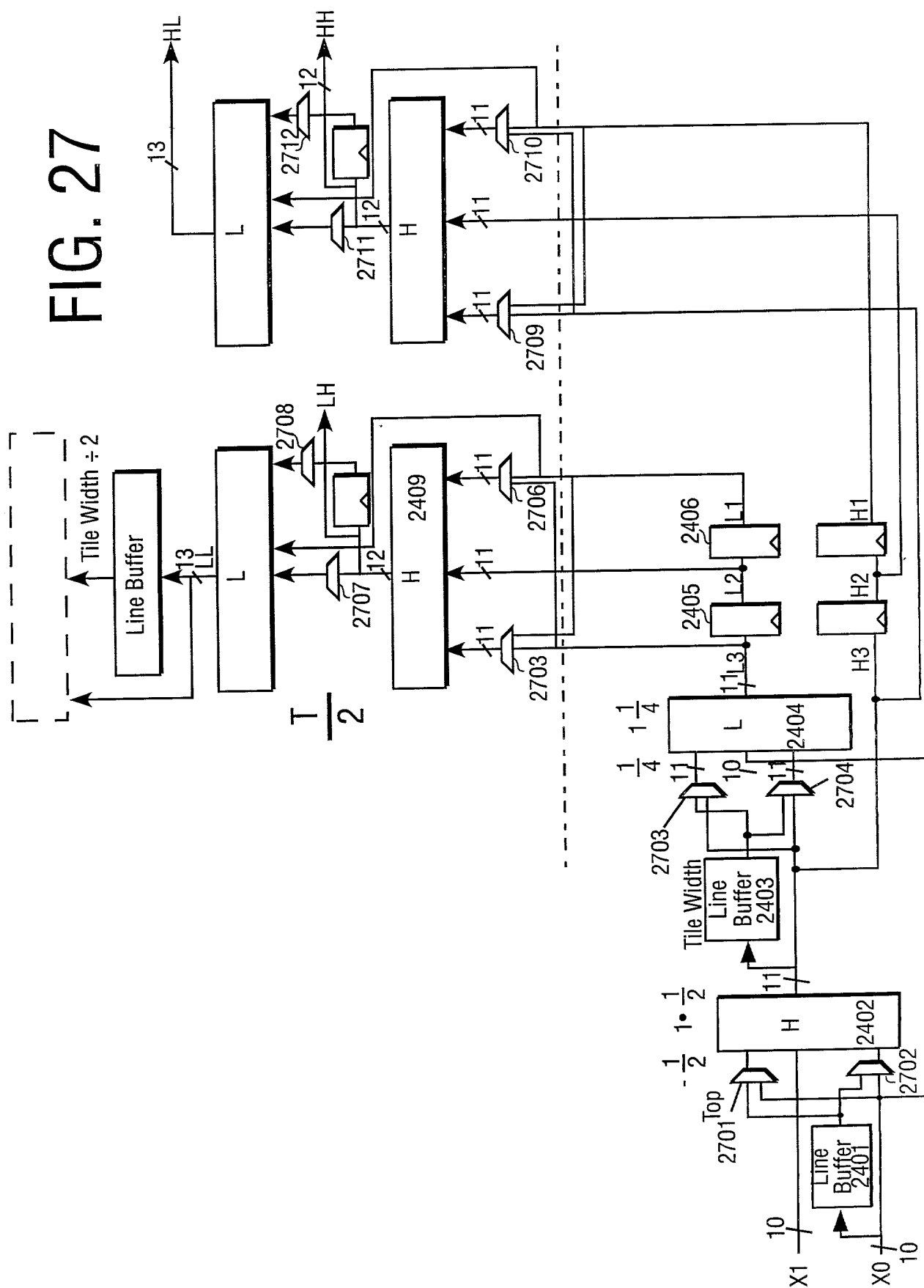
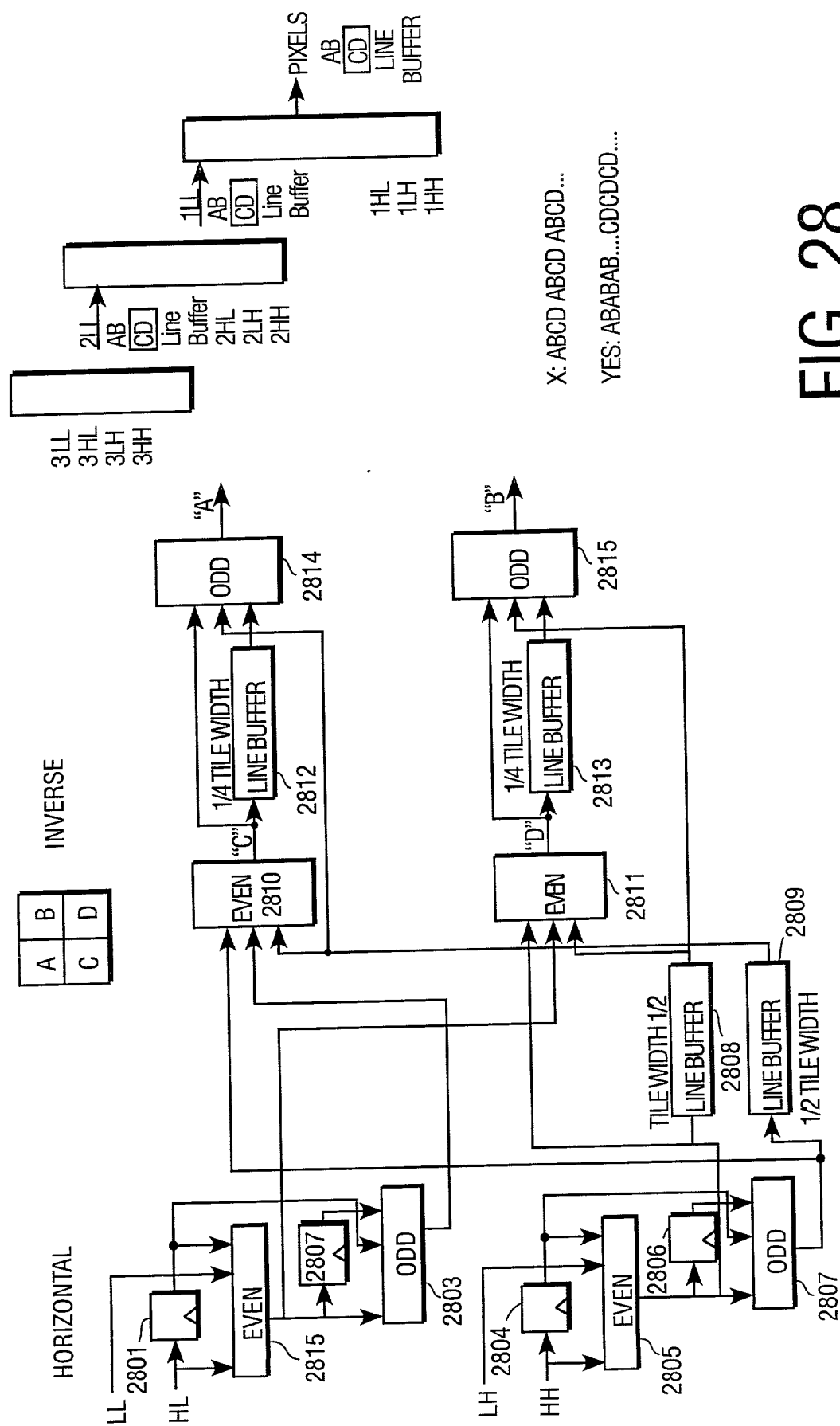


FIG. 26A

Species	Sex	Age	Weight (g)	Length (mm)	Wing (mm)	Tail (mm)	Culmen (mm)	Gape (mm)	Bill (mm)	Foot (mm)	Middle toe (mm)	Claw (mm)
Male	♂	1	100	150	60	40	10	15	10	10	10	5
Female	♀	1	80	140	55	35	8	12	8	8	8	4
Male	♂	2	120	160	65	45	12	18	12	12	12	6
Female	♀	2	90	150	60	40	10	15	10	10	10	5
Male	♂	3	150	180	70	50	15	22	15	15	15	8
Female	♀	3	110	160	65	45	12	18	12	12	12	6
Male	♂	4	180	200	75	55	18	25	18	18	18	10
Female	♀	4	130	170	70	50	15	22	15	15	15	8
Male	♂	5	200	220	80	60	20	30	20	20	20	12
Female	♀	5	150	180	75	55	18	25	18	18	18	10





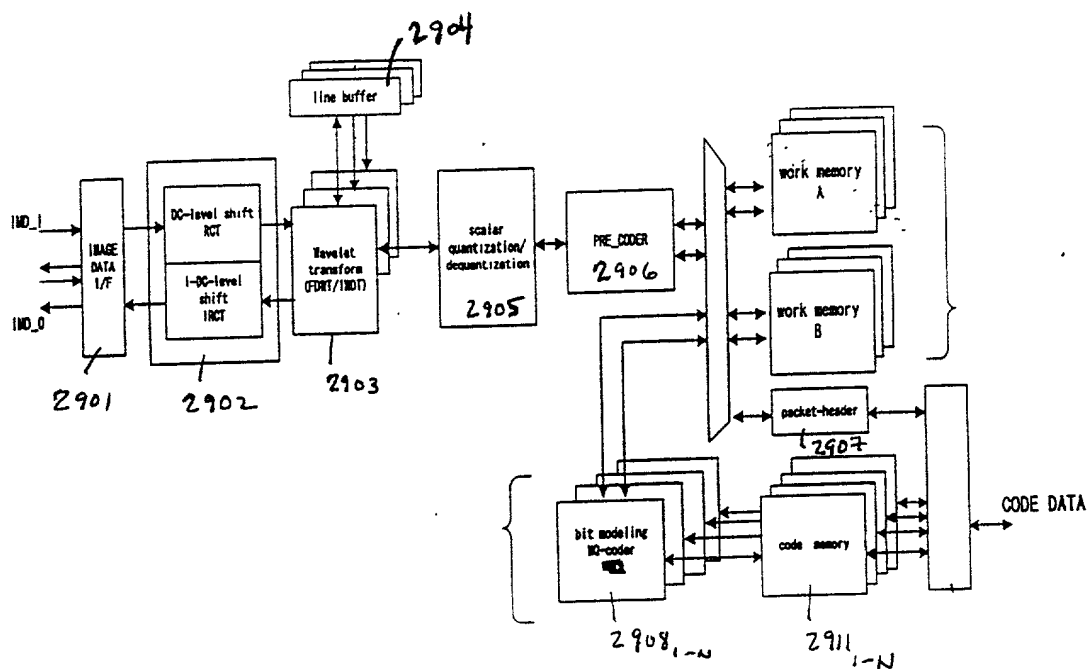


Figure 29

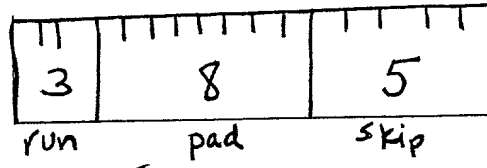
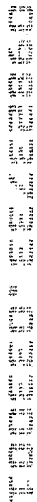
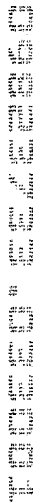


Figure 30

[illegible][illegible]

Year	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	